

# ONKYO®

Audio/Video Products 2012



## Liberate Your Entertainment

[www.intl.onkyo.com](http://www.intl.onkyo.com)



# Clear and Simple Home Theater Control

## Easy Content Selection with InstaPrevue™ Technology

Switching between games, movies, and cable television should be easy, but depending on your TV, it can be frustrating. The latest Onkyo network receivers feature InstaPrevue™ technology, which displays video thumbnails instead of port numbers. You can now preview connected content at a glance, and choose an HDMI source far more easily.



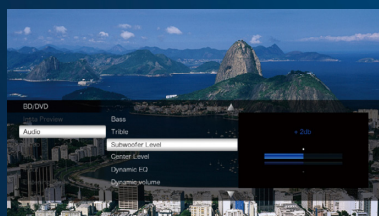
InstaPrevue™

New for 2012



## Overlaid OSD for Stress-Free Operation

Our receivers are simple to use. At the touch of a button, easy-to-navigate menus appear overlaid on screen. The HDMI-enabled Graphical User Interface gives instant access to home theater settings, guiding you through the initial set-up, and making in-program adjustments quick and easy.



Quick Setup button for in-program adjustment



New for 2012

## Remote Apps for iPhone and Android Phone

Remote Apps for iPod touch/iPhone and Android phone offer a more visual approach to controlling your home theater. You can choose an input source or adjust settings, control playback in multiple zones around the home, and even stream music directly (Android phone only) with our intuitive GUI.



# Integrated Home Entertainment

## Convergence with MP3tunes, Spotify, and Internet Radio

Wherever your digital music is stored, you can hear it through your home theater system. You can stream your own music collection from MP3tunes, discover something new at Spotify,\* or explore a wild variety of online radio stations. You can also play music stored on any household PC through the network receiver in a matter of moments.

\*Availability of Spotify depends on region.



MP3tunes

New for 2012

## MHL Smart Phone Input Adds to HDMI® Connectivity

Onkyo A/V receivers lead the field in HDMI connectivity. Selected 2012 models also feature a front-panel HDMI/MHL port for 1080p display of media stored on compatible smart phone. Naturally, HDMI also enables Dolby® TrueHD and DTS-HD Master Audio™ decoding, 3D video support, and Audio Return Channel.



New for 2012

## Plug and Play with Direct-Digital USB Connections

Most Onkyo receivers feature a front-panel USB port for iPod, iPod touch, and iPhone. The connection carries audio signals to the receiver's 192 kHz/24-bit DACs in digital format. This results in superior sound quality. Selected receivers also feature a rear-side USB port for our optional wireless LAN adapter.



Made for iPod iPhone

USB

## High-End Home Theater Performance Starts Here

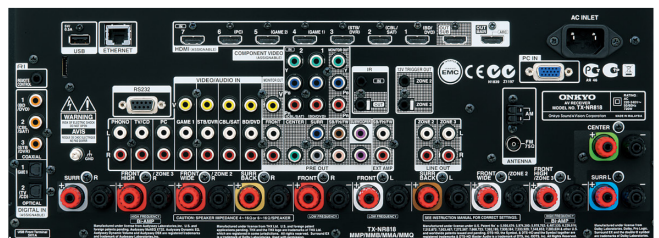
New for 2012



BLACK SILVER

### TX-NR818 7.2-Channel Network A/V Receiver

- THX® Select2 Plus™ Certified
- 230 W/Ch (6  $\Omega$ , 1 kHz, 1 Channel Driven, JEITA)
- 8 HDMI® Inputs (1 Front/7 Rear) and 2 Outputs
- Isolated Power-Amp and Pre-Amp Block
- High-Quality HQV® VIDA™ VHD1900 Video Processor
- HDMI Video Upscaling to 4K with Qdeo™ Technology by Marvell
- MHL™ (Mobile High-Definition Link) for Smart Phone Content on HDTV
- Picture-in-Picture Input Source Preview with InstaPrevue™ Technology
- ISF (Imaging Science Foundation) Video Calibration for Optimal Video Performance
- DTS Neo:X™, Audyssey DSX®, and Dolby® Pro Logic® IIz for Expanded Surround Channels
- Internet Radio and Cloud Music Streaming Service Connectivity\*1
- Supports Onkyo Remote Apps for iPod touch/iPhone and Android Phone\*2
- Audyssey MultEQ® XT32 for Room Acoustic Correction
- Digital Processing Crossover Network to Cancel Crossover Interference



## Exhilarating Entertainment For Your Whole Home

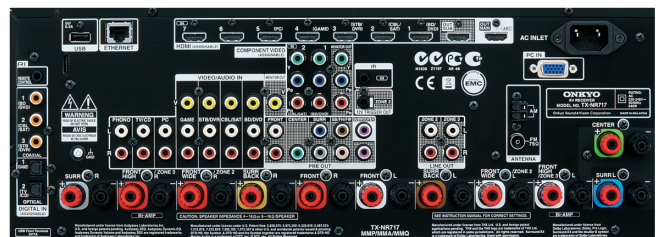
New for 2012



BLACK SILVER

### TX-NR717 7.2-Channel Network A/V Receiver

- THX® Select2 Plus™ Certified
- 185 W/Ch (6  $\Omega$ , 1 kHz, 1 Channel Driven, JEITA)
- 8 HDMI® Inputs (1 Front/7 Rear) and 2 Outputs
- HDMI Video Upscaling to 4K with Qdeo™ Technology by Marvell
- MHL™ (Mobile High-Definition Link) for Smart Phone Content on HDTV
- Picture-in-Picture Input Source Preview with InstaPrevue™ Technology
- Audyssey DSX® and Dolby® Pro Logic® IIz for Expanded Surround Channels
- Internet Radio and Cloud Music Streaming Service Connectivity\*1
- Supports Onkyo Remote Apps for iPod touch/iPhone and Android Phone\*2
- Audyssey 2EQ® for Room Acoustic Correction
- PLL (Phase Locked Loop) Jitter-Cleaning Circuit Technology
- 7.2 Multichannel Pre-Outs
- Bi-Amping Capability
- Analog RGB Video Input (D-sub, 15 pin) for PC



\*1 Availability of internet radio and music streaming services depends on region. Some services may require a firmware update.

\*2 Onkyo Remote Apps compatibility: iPod touch (3rd generation or later) and iPhone 3GS or later. All models require iOS 4.2 or later; Android phones require Android OS 2.1 or later.



## Revitalize Your Media with THX® Surround Sound

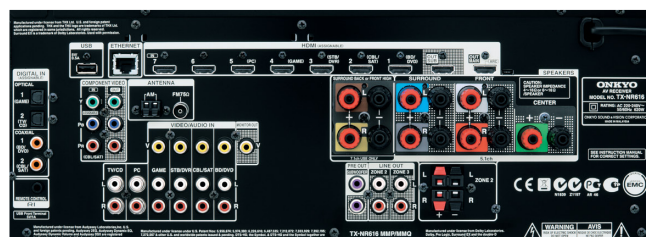
New for 2012



BLACK SILVER

## TX-NR616 7.2-Channel Network A/V Receiver

- THX® Select2 Plus™ Certified
- 175 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
- 8 HDMI® Inputs (1 Front/7 Rear) and 2 Outputs
- HDMI Video Upscaling to 4K with Qdeo™ Technology by Marvell
- MHL™ (Mobile High-Definition Link) for Smart Phone Content on HDTV
- Picture-in-Picture Input Source Preview with InstaPrevue™ Technology
- Audyssey DSX® and Dolby® Pro Logic® IIz for Expanded Surround Channels
- Internet Radio and Cloud Music Streaming Service Connectivity\*1
- Supports Onkyo Remote Apps for iPod touch/iPhone and Android Phone\*2
- Audyssey 2EQ® for Room Acoustic Correction
- Three-Stage Inverted Darlington Circuitry
- Hybrid Standby Function to Reduce Power Consumption



## A New Dimension to Music, Movies, and Games

New for 2012



- 160 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
- 8 HDMI® Inputs (1 Front/7 Rear) and 2 Outputs
- HDMI Video Upscaling to 4K with Qdeo™ Technology by Marvell
- MHL™ (Mobile High-Definition Link) for Smart Phone Content on HDTV
- Picture-in-Picture Input Source Preview with InstaPrevue™ Technology
- Dolby® Pro Logic® IIz for Expanded Surround Channels
- Internet Radio and Cloud Music Streaming Service Connectivity\*1
- Supports Onkyo Remote Apps for iPod touch/iPhone and Android Phone\*2
- Audyssey 2EQ® for Room Acoustic Correction
- 2 USB Ports (1 Front/1 Rear)
- Hybrid Standby Function to Reduce Power Consumption
- Independent Crossover Adjustment for Each Channel



BLACK SILVER

## TX-NR515 7.2-Channel Network A/V Receiver



## Explore a New World of Online Content

New for 2012



- 160 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
- 6 HDMI® Inputs and 1 Output
- Picture-in-Picture Input Source Preview with InstaPrevue™ Technology
- Internet Radio and Cloud Music Streaming Service Connectivity\*1
- Supports Onkyo Remote Apps for iPod touch/iPhone and Android Phone\*2
- Direct Digital Connection of iPod/iPhone via Front-Panel USB Port
- Hybrid Standby Function to Reduce Power Consumption
- Overlaid On-Screen Display (OSD) with Quick Set-Up and Home Menu
- Firmware Updates via Ethernet and USB
- Preprogrammed RI Remote Control



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## TX-NR414 5.1-Channel Network A/V Receiver





## An Affordable Blend of Features and Performance



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### TX-SR313 5.1-Channel Home Theater Receiver

HDMI DOLBY DIGITAL DTS HD WRAT CINEMA FILTER 192 kHz/24-bit USB RIHD Theater-Dimensional RI Made for iPod iPhone

- 120 W/Ch (6  $\Omega$ , 1 kHz, 1 Channel Driven, JEITA) • 4 HDMI® Inputs and 1 Output
- Dolby® TrueHD and DTS-HD Master Audio™ Decoding • Direct Digital Connection of iPod/iPhone via Front-Panel USB Port • WRAT (Wide Range Amplifier Technology)
- Discrete Output Stage Circuitry • Overlaid On-Screen Display (OSD) via HDMI
- TI Burr-Brown 192 kHz/24-Bit DACs for All Channels • 4 DSP Modes for Gaming: Rock, Sports, Action, and RPG • Advanced Music Optimizer for Compressed Digital Music Files



## Flagship Receiver Carries the Onkyo Legacy Forward



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### TX-NR5009 9.2-Channel Network A/V Receiver

- Massive Toroidal Transformer, Custom-Designed Transistors, and Two Large Capacitors
- Separate Anti-Vibration Aluminum Panels • Gold-Plated HDMI, A/V, and Speaker Terminals

THX DOLBY DIGITAL DTS HD HQV VLS C AUDYSSEY MULTISTEP DYNAMIC VOLUME DOLBY VOLUME 1 192 kHz/24-bit

## The Pinnacle of Processing Performance



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### PR-SC5509 9.2-Channel Network A/V Controller

- Massive Toroidal Transformer • Gold-Plated XLR Terminals
- TI Burr-Brown 192 kHz/32-Bit DACs • Separate Anti-Vibration Aluminum Panels

THX DOLBY DIGITAL DTS HD HQV VLS C AUDYSSEY MULTISTEP DYNAMIC VOLUME DOLBY VOLUME 1 192 kHz/24-bit

## Experience the Cutting Edge in Home Theater



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### TX-NR3009 9.2-Channel Network A/V Receiver

- Massive Transformer and Two Separate Transformers • VLS C™ (Vector Linear Shaping Circuitry)
- Machined Solid Brass, 19 mm-Pitch Audio Inputs • THX® Ultra2™ Certified • Network Capability

THX DOLBY DIGITAL DTS HD HQV VLS C AUDYSSEY MULTISTEP DYNAMIC VOLUME DOLBY VOLUME 1 192 kHz/24-bit

## We Know the Value of Clean Power



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### PA-MC5501 9-Channel Amplifier

- Massive Toroidal Transformer • Flat, High-Rigidity, Anti-Resonant Chassis
- Gold-Plated XLR Inputs • Push-Pull Amplification Design

THX WRAT

## THX® Blu-ray Player Enhances Your Content



BLACK SILVER

### BD-SP809 Blu-ray Disc Player

- 1080p Video Upscaling with Qdeo™ Technology • Center-Mounted Drive Mechanism

THX HDMI QDEO™ Blu-ray 3D™ dlna CERTIFIED AVCHD™ DIVX HD USB

## Nine-Channel Surround Puts You in the Movie



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### TX-NR1009 9.2-Channel Network A/V Receiver

- High-Quality HQV® Vida™ VHD1900 Video Processor • DTS Neo:X™, Audyssey DSX®, and Dolby® Pro Logic® IIz for Expanded Surround Channels • Network Capability

THX DOLBY DIGITAL DTS HD HQV VLS C AUDYSSEY MULTISTEP DYNAMIC VOLUME DOLBY VOLUME 1 192 kHz/24-bit

## Affordable 3D Blu-ray Player Adds Home Networking

BLACK SILVER

### BD-SP309 Blu-ray Disc Player

- Supports Blu-ray 3D • Ethernet Port for Media Streaming • 2 USB Ports • Plays DivX Plus™ HD

HDMI DOLBY DIGITAL DTS HD HQV VLS C AUDYSSEY MULTISTEP DYNAMIC VOLUME DOLBY VOLUME 1 192 kHz/24-bit





## HT-S6505 5.1-Channel Network A/V Receiver/Speaker Package



### HT-R758 5.1-Channel Network A/V Receiver

- 160 W/Ch (6  $\Omega$ , 1 kHz, 1 Channel Driven, JEITA) • 6 HDMI® Inputs and 1 Output
- Dolby® TrueHD and DTS-HD Master Audio™ Decoding • Picture-in-Picture Input Source Preview with InstaPrevue™ Technology • Internet Radio and Cloud Music Streaming Service Connectivity\*1 • Direct Digital Connection of iPod/iPhone via Front-Panel USB Port • Supports Only Remote Apps for iPod touch/iPhone and Android Phone\*2 • Audyssey 2EQ® for Room Acoustic Correction • Overlaid On-Screen Display (OSD) with Quick Set-Up and Home Menu • Hybrid Standby Function to Reduce Power Consumption • WHD: 435 x 173.5 x 328 mm • 9.0 kg



### HTP-658 5.1-Channel Home Theater Speaker System

**SKF-558** Full-Range Bass Reflex Front Speakers • WHD: 101 x 175 x 116 mm • 0.7 kg  
**SKC-391** Full-Range Bass Reflex Center Speaker • WHD: 240 x 102 x 121 mm • 0.8 kg  
**SKR-558** Full-Range Bass Reflex Surround Speakers • WHD: 101 x 175 x 116 mm • 0.7 kg  
**SKW-658** Bass Reflex Powered Subwoofer • WHD: 230 x 425 x 410 mm • 7.7 kg



## HT-S5500 7.1-Channel Home Theater Receiver/Speaker Package



### HT-R591 7.1-Channel Home Theater Receiver

- 160 W/Ch (6  $\Omega$ , 1 kHz, 1 Channel Driven, JEITA) • 4 HDMI® Inputs and 1 Output
- Dolby® TrueHD and DTS-HD Master Audio™ Decoding • Dolby® Pro Logic® IIz for Expanded Surround Channels • Direct Digital Connection of iPod/iPhone via Front-Panel USB Port • WRAT (Wide Range Amplifier Technology) • Discrete Output Stage Circuitry • Overlaid On-Screen Display (OSD) via HDMI • Audyssey 2EQ® for Room Acoustic Correction • WHD: 435 x 150 x 328 mm • 9.0 kg



### HTP-591 7.1-Channel Home Theater Speaker System

**SKF-591** 2-Way Bass Reflex Front Speakers • WHD: 155 x 378 x 169 mm • 2.6 kg  
**SKC-591** 2-Way Bass Reflex Center Speaker • WHD: 420 x 115 x 119 mm • 2.4 kg  
**SKR-590/SKR-590** Full-Range Acoustic Suspension Surround/Surround Back Speakers • WHD: 115 x 230 x 96 mm • 1.0 kg  
**SKW-591** Bass Reflex Powered Subwoofer • WHD: 317.5 x 468 x 398 mm • 9.1 kg



## HT-S4505 5.1-Channel Home Theater Receiver/Speaker Package



### HT-R558 5.1-Channel Home Theater Receiver

- 120 W/Ch (6  $\Omega$ , 1 kHz, 1 Channel Driven, JEITA) • 4 HDMI® Inputs and 1 Output
- Dolby® TrueHD and DTS-HD Master Audio™ Decoding • Direct Digital Connection of iPod/iPhone via Front-Panel USB Port • WRAT (Wide Range Amplifier Technology) • Discrete Output Stage Circuitry • Overlaid On-Screen Display (OSD) via HDMI • WHD: 435 x 150 x 318 mm • 7.8 kg



### HTP-558 5.1-Channel Home Theater Speaker System

**SKF-558** Full-Range Bass Reflex Front Speakers • WHD: 101 x 175 x 116 mm • 0.7 kg  
**SKC-391C** Full-Range Acoustic Suspension Center Speaker • WHD: 240 x 102 x 121 mm • 1.3 kg  
**(SKC-391)** Full-Range Bass Reflex Center Speaker • WHD: 240 x 102 x 121 mm • 0.8 kg  
**SKR-558** Full-Range Bass Reflex Surround Speakers • WHD: 101 x 175 x 116 mm • 0.7 kg  
**SKW-558** Bass Reflex Powered Subwoofer • WHD: 211 x 425 x 391 mm • 6.1 kg



## HT-S3505 5.1-Channel Home Theater Receiver/Speaker Package



### HT-R358 5.1-Channel Home Theater Receiver

- 100 W/Ch (6  $\Omega$ , 1 kHz, 1% THD, 1 Channel Driven, IEC) • 4 HDMI® Inputs and 1 Output
- Dolby® TrueHD and DTS-HD Master Audio™ Decoding • Universal Port for Optional UP-A1 Dock for iPod/iPhone • WRAT (Wide Range Amplifier Technology) • Overlaid On-Screen Display (OSD) via HDMI • Super EX.Bass for Deeper, More Dynamic Bass • WHD: 435 x 150 x 318 mm • 7.6 kg

### HTP-358 5.1-Channel Home Theater Speaker System

**SKF-558** Full-Range Bass Reflex Front Speakers • WHD: 101 x 175 x 116 mm • 0.7 kg  
**SKC-391** Full-Range Bass Reflex Center Speaker • WHD: 240 x 102 x 121 mm • 0.8 kg  
**SKR-558** Full-Range Bass Reflex Surround Speakers • WHD: 101 x 175 x 116 mm • 0.7 kg  
**SKW-358** Bass Reflex Subwoofer • WHD: 211 x 425 x 381 mm • 5.5 kg



## HT-S3500 5.1-Channel Home Theater Receiver/Speaker Package



### HT-R391 5.1-Channel Home Theater Receiver

- 120 W/Ch (6  $\Omega$ , 1 kHz, 1 Channel Driven, JEITA) • 4 HDMI® Inputs and 1 Output • Dolby® TrueHD and DTS-HD Master Audio™ Decoding • Direct Digital Connection of iPod/iPhone via Front-Panel USB Port • WRAT (Wide Range Amplifier Technology) • Overlaid On-Screen Display (OSD) via HDMI • Super EX.Bass for Deeper, More Dynamic Bass • WHD: 435 x 150 x 318 mm • 7.8 kg

### HTP-391 5.1-Channel Home Theater Speaker System

**SKF-391** Full-Range Bass Reflex Front Speakers • WHD: 101 x 200 x 114 mm • 0.7 kg  
**SKC-391C** Full-Range Acoustic Suspension Center Speaker • WHD: 240 x 102 x 121 mm • 1.3 kg  
**SKR-391** Full-Range Bass Reflex Surround Speakers • WHD: 101 x 200 x 114 mm • 0.7 kg  
**SKW-391** Bass Reflex Subwoofer • WHD: 295 x 345 x 368 mm • 6.4 kg



## HT-S9405THX 5.1-Channel Network A/V Receiver/Speaker Package



### HT-R990 7.1-Channel Network A/V Receiver

- 130 W/Ch (6  $\Omega$ , 1 kHz, 1% THD, 1 Channel Driven, IEC) • THX® I/S Plus™ Certified
- 4 HDMI® Inputs and 1 Output • HDMI Video Upscaling to 4K with Qdeo™ Technology by Marvell • Direct Digital Connection of iPod/iPhone via Front-Panel USB Port • Internet Radio and Cloud Music Streaming Service Connectivity\*1 • Supports Onkyo Remote Apps for iPod touch/iPhone and Android Phone\*2 • Dolby® Pro Logic® IIz for Expanded Surround Channels • Universal Port for Single-Cable Connection of Onkyo Peripheral Devices • WHD: 435 x 173.5 x 328 mm • 9.3 kg



### HTP-948 5.1-Channel Home Theater Speaker System

**SKF-980** 2-Way Acoustic-Suspension Front Speakers • WHD: 158 x 433 x 199 mm • 5.3 kg  
**SKC-980** 2-Way Acoustic-Suspension Center Speaker • WHD: 433 x 158 x 199 mm • 5.3 kg  
**SKR-980** 2-Way Acoustic-Suspension Surround Speakers • WHD: 200 x 275 x 169 mm • 3.5 kg  
**SKW-938** Acoustic-Suspension Powered Subwoofer • WHD: 380 x 444 x 429 mm • 15.5 kg



# Core Technology

## Precision Build for Audiophile-Level Sound Quality

Our high-end models feature a massive toroidal transformer, with separate transformers for audio and video processing. From the mid range and up, the power amp and pre-amp are isolated to minimize interference. Rigid anti-resonant chassis and separate side and front panels are used on our most powerful models, as are gold-plated inputs, outputs, and speaker posts.



## HDMI® for Seamless HD Integration

Our A/V receivers feature more HDMI inputs than ever to accept all of your HD sources. HDMI enables decoding of Dolby® TrueHD and DTS-HD Master Audio™. It also supports 3D video playback, and powers our user-friendly GUI.



## Enjoy Online Audio with Higher Fidelity Sound

Wherever you're an occasional listener or a passionate music fan, Onkyo's DLNA®-certified network receivers connect you to a world of online audio content. Explore internet radio, stream music, and access libraries stored on PC.

Note: Availability of internet radio and music streaming services depends on region. Some services may require a firmware update.



## THX® is Your Performance Guarantee

To achieve THX® Ultra2 Plus™ or THX® Select2 Plus™ certification, Onkyo's mid-range and high-end A/V receivers are rigorously and independently tested.



## World-Beating Picture Quality

Selected receivers feature the HQV®/Vida™ VHD1900 processor; upscaling lower-quality video sources to breathtaking 1080p. Marvel's Qdeo™ technology upscales all video up to 4K with a compatible display, while an ISF input calibration system dramatically improves display performance.



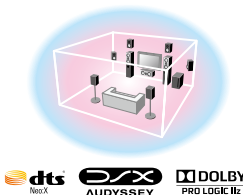
## Tailored to Your Unique Listening Space

Audyssey's MultEQ® XT32, MultEQ® XT, and 2EQ® acoustic correction systems equalize the sound to suit your room shape, guaranteeing the best performance from your home theater.



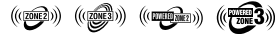
## More Realistic Surround Sound

DTS Neo:X™, Audyssey DSX®, and Dolby® Pro Logic® IIz expand audio sources to deliver up to nine channels of surround sound on selected Onkyo receivers. Front Wide or Front Height channels carry directional effects or add a vertical dimension to your movie and game soundtracks.



## Entertainment Throughout Your Home

Integrated household entertainment is now a reality, with Onkyo A/V receivers able to distribute and power audio in up to three separate rooms of your home. And with our top-end models, you have the added advantage of video in a second room.



## WRAT (Wide Range Amplifier Technology)

WRAT is a circuit topology that reduces distortion across the frequency range. Each circuit has a separate link to the power supply to cancel electrical noise, while high instantaneous current capability ensures a sustained, stable supply of power. Our amps also feature discrete, high-quality output-stage components.

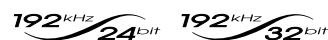


## Three-Stage Inverted Darlington Circuitry

Found on mid-range models and up, this advanced amplification circuit incorporates a low negative feedback design to remove distortion and preserve the natural purity and character of audio signals.

## High-Performance Digital-to-Analog Converters

Our high-end models employ 192 kHz/32-bit Burr-Brown DACs on all channels to achieve the best dynamic performance and better tolerance to clock jitter. All other models are graced with high-performance 192 kHz/24-bit DACs.



## VLSC™ (Vector Linear Shaping Circuitry)

In addition to quality DACs, VLSC employs a unique digital-to-analog conversion circuit to further mitigate the effects of signal noise. Our technology produces a pristine analog signal based on the digital source.



## Hybrid Standby Saves Power

Hybrid Standby mode provides 'HDMI through' functionality while the network A/V receiver is powered down. Now you have the option of using the TV, game console or Blu-ray player without having to turn the whole system on. You can also power up using Onkyo Remote Apps for iPhone and Android phone.



## Four Thrilling Audio Modes for Gamers

Experience stunning realism and impact with four gaming modes—Rock, Sports, Action, or Role Playing Game (RPG)—optimizing the surround sound to help you get the most from your favorite games.

## Wireless-Ready with USB Adapter

The optional UWF-1 Wireless LAN Adapter lets you integrate your music life without unsightly wires. Simply plug it into your network receiver's USB and enjoy smooth wireless access to the local network.



## Stream Direct From Your Handset or Tablet

Onkyo's UBT-1 Bluetooth USB Adapter (sold separately) lets you stream music from compatible devices—such as cellphones, laptops, and tablets—with aptX™ coding technology delivering truly outstanding wireless audio quality.

Compatible with TX-NR818, TX-NR717, TX-NR616, TX-NR515, TX-NR414, and HTS6505.



# Features

A/V RECEIVERS	TX-NR5009	PR-SC5509	TX-NR3009	TX-NR1009	TX-NR818	TX-NR717	TX-NR616	TX-NR515	TX-NR414	TX-SR313
CHANNELS	9.2	9.2	9.2	9.2	7.2	7.2	7.2	7.2	5.1	5.1
3D READY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
THX® CERTIFIED	THX ULTRA2 PLUS	THX ULTRA2 PLUS	THX ULTRA2 PLUS	THX SELECT2 PLUS	THX SELECT2 PLUS	THX SELECT2 PLUS	THX SELECT2 PLUS	✓	✓	✓
WRAT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VLSC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DOLBY TRUEHD & DTS-HD MASTER AUDIO DECODING	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SURROUND SOUND EXPANSION	DTS Neo:X, Audyssey DSX, Dolby Pro Logic IIz, Audyssey MultEQ XT32	DTS Neo:X, Audyssey DSX, Dolby Pro Logic IIz, Audyssey MultEQ XT32	DTS Neo:X, Audyssey DSX, Dolby Pro Logic IIz, Audyssey MultEQ XT32	DTS Neo:X, Audyssey DSX, Dolby Pro Logic IIz, Audyssey MultEQ XT	DTS Neo:X, Audyssey DSX, Dolby Pro Logic IIz, Audyssey MultEQ XT32	Audyssey DSX, Dolby Pro Logic IIz	Audyssey DSX, Dolby Pro Logic IIz	Dolby Pro Logic IIz	✓	✓
ROOM CALIBRATION	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NETWORK CONNECTIVITY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HDMI® INPUTS/OUTPUTS	7+1/2	7+1/2	7+1/2	7+1/2	7+1/2	7+1/2	7+1/2	7+1/2	6/1	4/1
4K VIDEO UPSCALING	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VIDEO PROCESSING	HQV, Qdeo	HQV, Qdeo	HQV, Qdeo	HQV, Qdeo	HQV, Qdeo	Qdeo	Qdeo	Qdeo	✓	✓
MULTI-ZONE AUDIO PLAYBACK	POWERED ZONE2/3, ZONE 2/3 PRE-OUTS	ZONE 2/3 PRE-OUTS	POWERED ZONE2/3, ZONE 2/3 PRE-OUTS	POWERED ZONE2/3, ZONE 2/3 PRE-OUTS	POWERED ZONE2/3, ZONE 2/3 LINE OUTS	POWERED ZONE2/3, ZONE 2/3 LINE OUTS	POWERED ZONE2, ZONE2/3 LINE OUTS	POWERED ZONE2, ZONE2 LINE OUT	ZONE2 LINE OUT	✓
MULTI-ZONE VIDEO PLAYBACK	ZONE 2	ZONE 2	ZONE 2	ZONE 2	✓	✓	✓	✓	✓	✓
USB PORTS	2 (FRONT/REAR)	2 (FRONT/REAR)	2 (FRONT/REAR)	2 (FRONT/REAR)	2 (FRONT/REAR)	2 (FRONT/REAR)	2 (FRONT/REAR)	2 (FRONT/REAR)	1 (FRONT)	1 (FRONT)
INSTAPREVIEW™	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MHL™	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HYBRID STANDBY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



# Specifications

A/V RECEIVERS	TX-NR5009	PR-SC5509	TX-NR3009	TX-NR1009	TX-NR818	TX-NR717	TX-NR616	TX-NR515	TX-NR414	TX-SR313
<b>Amplifier Section</b>										
<b>Power Output</b> All Channels (except for subwoofers)	280 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 220 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, IEC)	—	250 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 200 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, IEC)	230 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 180 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, IEC)	230 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 180 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	185 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 170 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	175 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 160 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	160 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 130 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	160 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 130 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	120 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 100 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)
<b>Dynamic Power</b>	400 W (3 Ω, Front) 300 W (4 Ω, Front) 180 W (8 Ω, Front)	—	320 W (3 Ω, Front) 270 W (4 Ω, Front) 160 W (8 Ω, Front)	300 W (3 Ω, Front) 250 W (4 Ω, Front) 150 W (8 Ω, Front)	300 W (3 Ω, Front) 250 W (4 Ω, Front) 150 W (8 Ω, Front)	250 W (3 Ω, Front) 220 W (4 Ω, Front) 130 W (8 Ω, Front)	240 W (3 Ω, Front) 210 W (4 Ω, Front) 120 W (8 Ω, Front)	180 W (3 Ω, Front) 160 W (4 Ω, Front) 100 W (8 Ω, Front)	180 W (3 Ω, Front) 160 W (4 Ω, Front) 100 W (8 Ω, Front)	160 W (3 Ω, Front) 125 W (4 Ω, Front) 85 W (8 Ω, Front)
<b>THD (Total Harmonic Distortion + Noise)</b>	0.05% (20 Hz–20 kHz, Half Power)	0.05% (20 Hz–20 kHz, Half Power)	0.05% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)
<b>Damping Factor</b>	60 (Front, 1 kHz, 8 Ω)	—	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)
<b>Input Sensitivity and Impedance</b>	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line)	200 mV/47 kΩ (Line)	200 mV/47 kΩ (Line)	200 mV/47 kΩ (Line)
<b>Rated RCA Output Level and Impedance</b>	1 V/470 Ω (Pre Out)	1 V/470 Ω (Pre Out)	1 V/470 Ω (Pre Out)	200 mV/470 Ω (Pre Out)	200 mV/470 Ω (Line Out)	200 mV/470 Ω (Line Out)	200 mV/2.2 kΩ (Line Out)	200 mV/2.2 kΩ (Line Out)	200 mV/2.2 kΩ (Line Out)	200 mV/2.2 kΩ (Line Out)
<b>Maximum RCA Output Level and Impedance</b>	5.5 V/470 Ω (Pre Out)	5.5 V/470 Ω (Pre Out)	5.5 V/470 Ω (Pre Out)	4.6 V/470 Ω (Pre Out)	4.6 V/470 Ω (Line Out)	4.6 V/470 Ω (Line Out)	2.0 V/2.2 kΩ (Line Out)	2.0 V/2.2 kΩ (Line Out)	2.0 V/2.2 kΩ (Line Out)	2.0 V/2.2 kΩ (Line Out)
<b>Phono Overload</b>	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	—	—	—	—
<b>Frequency Response</b>	5 Hz–100 kHz/ +1 dB, -3 dB (Direct Mode)	5 Hz–100 kHz/ +1 dB, -3 dB (Direct Mode)	5 Hz–100 kHz/ +1 dB, -3 dB (Direct Mode)	5 Hz–100 kHz/ +1 dB, -3 dB (Direct Mode)	5 Hz–100 kHz/ +1 dB, -3 dB (Direct Mode)	5 Hz–100 kHz/ +1 dB, -3 dB (Direct Mode)	5 Hz–100 kHz/ +1 dB, -3 dB (DSP Bypass)	5 Hz–100 kHz/ +1 dB, -3 dB (DSP Bypass)	5 Hz–100 kHz/ +1 dB, -3 dB (DSP Bypass)	5 Hz–100 kHz/ +1 dB, -3 dB (DSP Bypass)
<b>Tone Control</b> Bass Treble	±10 dB, 50 Hz ±10 dB, 20 kHz	±10 dB, 50 Hz ±10 dB, 20 kHz	±10 dB, 50 Hz ±10 dB, 20 kHz	±10 dB, 50 Hz ±10 dB, 20 kHz	±10 dB, 50 Hz ±10 dB, 20 kHz	±10 dB, 50 Hz ±10 dB, 20 kHz	±10 dB, 30 Hz ±10 dB, 20 kHz	±10 dB, 50 Hz ±10 dB, 20 kHz	±10 dB, 50 Hz ±10 dB, 20 kHz	±10 dB, 50 Hz ±10 dB, 20 kHz
<b>Signal-to-Noise Ratio</b>	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	106 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	106 dB (Line, IHF-A)	100 dB (Line, IHF-A)	100 dB (Line, IHF-A)
<b>Speaker Impedance</b>	4 Ω–16 Ω or 6 Ω–16 Ω	—	4 Ω–16 Ω or 6 Ω–16 Ω	4 Ω–16 Ω or 6 Ω–16 Ω	4 Ω–16 Ω or 6 Ω–16 Ω	4 Ω–16 Ω or 6 Ω–16 Ω	4 Ω–16 Ω or 6 Ω–16 Ω	6 Ω–16 Ω	6 Ω–16 Ω	6 Ω–16 Ω
<b>Video Section</b>										
<b>Input Sensitivity/Output Level and Impedance</b>	1.0 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component Pb/Cb, Pr/Cr) 0.28 Vp-p/75 Ω (S-Video C) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component Pb/Cb, Pr/Cr) 0.28 Vp-p/75 Ω (S-Video C) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component Pb/Cb, Pr/Cr) 0.28 Vp-p/75 Ω (S-Video C) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component Pb/Cb, Pr/Cr) 0.28 Vp-p/75 Ω (S-Video C) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75Ω (Component Pb/Cb, Pr/Cr) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75Ω (Component Pb/Cb, Pr/Cr) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75Ω (Component Pb/Cb, Pr/Cr) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75Ω (Component Pb/Cb, Pr/Cr) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75Ω (Component Pb/Cb, Pr/Cr) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75Ω (Component Pb/Cb, Pr/Cr) 1.0 Vp-p/75 Ω (Composite)
<b>Component Video Frequency Response</b>	5 Hz–100 MHz (+0 dB, -3 dB)	5 Hz–100 MHz (+0 dB, -3 dB)	5 Hz–100 MHz (+0 dB, -3 dB)	5 Hz–100 MHz (+0 dB, -3 dB)	5 Hz–100 MHz (+0 dB, -3 dB)	5 Hz–100 MHz (+0 dB, -3 dB)	5 Hz–100 MHz (+0 dB, -3 dB)	5 Hz–100 MHz (+0 dB, -3 dB)	5 Hz–100 MHz (+0 dB, -3 dB)	5 Hz–100 MHz (+0 dB, -3 dB)
<b>Tuner Section</b>										
<b>Tuning Frequency Range</b> FM AM	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz
<b>Preset Memory</b>	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations
<b>General</b>										
<b>Power Supply</b>	AC 220–240 V, 50/60 Hz	AC 220–240 V, 50/60 Hz	AC 220–240 V, 50/60 Hz	AC 220–240 V, 50/60 Hz	AC 220–240 V, 50/60 Hz	AC 220–240 V, 50/60 Hz	AC 220–240 V, 50/60 Hz	AC 220–240 V, 50/60 Hz	AC 220–240 V, 50/60 Hz	AC 220–240 V, 50/60 Hz
<b>Power Consumption</b>	1,160 W	110 W	1,060 W	830 W	720 W	640 W	620 W	540 W	450 W	340 W
<b>Dimensions (W x H x D)</b>	435 x 198.5 x 463.5 mm	435 x 198.5 x 453.5 mm	435 x 198.5 x 463.5 mm	435 x 198.5 x 435.5 mm	435 x 198.5 x 435.5 mm	435 x 174 x 379 mm	435 x 173.5 x 328 mm	435 x 173.5 x 328 mm	435 x 173.5 x 328 mm	435 x 150 x 318 mm
<b>Weight</b>	25.0 kg	14.0 kg	25.0 kg	18.5 kg	18.3 kg	12.1 kg	11.0 kg	9.6 kg	9.4 kg	7.6 kg

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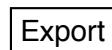
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